

Session Program

9-13 Sept 2019



CEMP Stars as Probes of First-Star Nucleosynthesis, the IMF, and Galactic Assembly

THEORETICAL APPROACH TO CEMP STARS, FIRST STARS, AND FIRST GALAXIES

University of Geneva A100 Sciences II, A100 Sciences II, 30 quai Ernest Ansermet, 1205 Geneva
30, quai Ernest Ansermet 1205 Geneva

Tuesday 10 September

16:20

THEORETICAL APPROACH TO CEMP STARS, FIRST STARS, AND FIRST GALAXIES: 1 (Chair: Sylvia Ekström)

Session

16:20–16:50

The First Stars: Our Emerging Theoretical Framework

Speaker

Prof. Volker Bromm

16:50–17:10

Fragmentation Condition in a Primordial Accretion Disk

Speaker

Ms Wei-Ting Liao

17:10–17:30

Thermodynamics of H₂ in the context of the First Stars

Speaker

Piyush Sharda

17:30–17:50

Surviving Pristine Stars and the Implications of their Non-detection Paper Number

Speaker

Mattis Magg

17:50

Wednesday 11 September

09:00

THEORETICAL APPROACH TO CEMP STARS, FIRST STARS, AND FIRST GALAXIES: 2 (Chair: David Yong)

Session

09:00–09:30

The variety of CEMP-no abundances: back-and-forth mixing between H- and He-burning

Speaker

Prof. André Maeder

09:30–09:50

Probing the rotation of early massive stars from the abundances of metal-poor stars

Speaker

Arthur Choplin

09:50–10:10

Mechanical mass loss in very metal poor massive stars

Speaker

Mr Sébastien Martinet

10:10–10:30

An Alternative Progenitor Scenario for the Most Iron-poor CEMP-no Stars.

Speaker

Ondrea Clarkson

10:30

11:00

THEORETICAL APPROACH TO CEMP STARS, FIRST STARS, AND FIRST GALAXIES: 3 (Chair: Raphael Hirschi)

Session

11:00–11:20

The origin of CEMP-i stars - Results from a comprehensive multi-method simulations approach

Speaker

Falk Herwig

11:20–11:40

A new grid of Geneva stellar evolution models for Population-III stars

Speaker

Laura Murphy

11:40–12:00

Low-mass primordial stars: i-process nucleosynthesis during core-flash proton ingestion episodes?

Speaker

Dr Simon Campbell

12:00–12:20

Observational Evidence for Aspherical Jet-Like Population III Supernova Explosion

Speaker

Rana Ezzeddine

12:20–12:40

CEMP star formation from faint supernova explosions

Speaker

Gen Chiaki

12:40

Thursday 12 September

09:00

THEORETICAL APPROACH TO CEMP STARS, FIRST STARS, AND FIRST GALAXIES: 4 (Chair: André Maeder)

Session

09:00–09:30

Simulating and Observing the First Galaxies

Speaker

Prof. John Wise

09:30–10:00

Building-up Pop III IMF in the Milky Way-like galaxies

Speaker

Dr Shingo Hirano

10:00–10:30

First star mass distribution: empirical constraints

Speaker

Prof. Salvadori Stefania

10:30

11:00

THEORETICAL APPROACH TO CEMP STARS, FIRST STARS, AND FIRST GALAXIES: 5 (Chair: Georges Meynet)

Session

11:00–11:30

Connecting the first galaxies with ultra faint dwarfs in the Local Group

Speaker

Prof. Jeon Myoungwon

11:30–12:00

Exploring the stellar ionising continuum of galaxies in the context of cosmic reionisation

Speaker

Prof. Anne Verhamme

12:00–12:20

CEMP stars: their origin and connection with stars that reionized the Universe

Speaker

Dr Mahavir Sharma

12:20